

WHAT IS CLAIMED IS:

1. A moisturizing and lubricating composition comprising from about 1% (by weight) to about 40% (by weight) of an emollient, from about 1% (by weight) to about 20% (by weight) of a humectant, from about 30% (by weight) to about 5 90% (by weight) an immobilizing agent, and from about 1% (by weight) to about 40% (by weight) of a compatibilizing agent wherein no more than about 50% (by weight) of the components are liquid at room temperature and no less than about 50% of the components are solid at room temperature, and wherein at 10 least about 85% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from about 45°C to about 80°C.

2. The moisturizing and lubricating composition as set forth in claim 1 wherein the emollient is selected from the group consisting of petroleum based emollients, fatty acids, fatty acid esters, vegetable oils, hydrogenated vegetable 5 oils, alkyl ethoxylates, fatty alcohols, silicones, and combinations thereof.

3. The moisturizing and lubricating composition as set forth in claim 2 wherein the silicones are selected from the group consisting of dimethicone, dimethoconol, PEG dimethicone, alkyl silicones, phenyl silicones, silicone 5 phospholipids, and combinations thereof.

4. The moisturizing and lubricating composition as set forth in claim 1 wherein the humectant is present in an amount of from about 5% (by weight) to about 15% (by weight).

5. The moisturizing and lubricating composition as set forth in claim 1 wherein the humectant is selected from the group consisting of N-Acetyl ethanolamine, urocanic acid, aloe vera gel, arginine PCA, chitosan PCA, copper PCA, corn

5 glycerides, dimethyl imidazolidinone, fructose, glucamine, glucose, glucose glutamate, glucuronic acid, glutamic acid, glycereth-7, glycereth-12, glycereth-20, glycereth-26, glycerin, honey, hydrogenated honey, hydrogenated starch hydrolysates, hydrolyzed corn starch, lactamide MEA, lactic acid, lactose lysine PCA, mannitol, methyl gluceth-10, methyl gluceth-20, PCA, PEG-2 lactamide, PEG-10 propylene glycol, polyamino sugar condensate, potassium PCA, propylene glycol, propylene glycol citrate, polyamino acid, polysaccharide, saccharide hydrolysate, saccharide isomerate, sodium 10 aspartate, sodium lactate, sodium PCA, sorbitol, TEA-lactate, 15 TEA-PCA, Urea, Xylitol, and mixtures thereof.

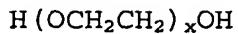
6. The moisturizing and lubricating composition as set forth in claim 1 wherein the humectant is selected from the group consisting of polyols, glycerine, ethoxylated glycerine, polyethylene glycols, hydrogenated starch 5 hydrosates, propylene glycol, silicone glycol, pyrrolidone carboxylic acid, and mixtures thereof.

7. The moisturizing and lubricating composition as set forth in claim 1 wherein the humectant is glycerin.

8. The moisturizing and lubricating composition as set forth in claim 1 wherein the immobilizing agent is present in an amount of from about 40% (by weight) to about 70% (by weight).

9. The moisturizing and lubricating composition as set forth in claim 1 wherein the immobilizing agent is selected from the group consisting of aluminum stearate, calcium stearate, magnesium stearate, zinc stearate, C₁₄-C₂₂ fatty 5 alcohols, C₁₂-C₂₂ fatty acids, solid fatty acid esters, C₁₂-C₂₂ fatty alcohol ethoxylates having an average degree of

ethoxylation ranging from about 2 to about 30, and high molecular weight polyethylene glycols having the formula:



10 wherein x is the degree of ethoxylation and is an average value of at least about 20 moles.

10. The moisturizing and lubricating composition as set forth in claim 9 wherein the polyethylene glycols are selected from the group consisting of PEG 1000, PEG 3350, PEG 6000, PEG 8000, and PEG 10,000.

11. The moisturizing and lubricating composition as set forth in claim 9 wherein the fatty alcohol is selected from the group consisting of cetyl alcohol, cetearyl alcohol, stearyl alcohol, behenyl alcohol, and mixtures thereof.

12. The moisturizing and lubricating composition as set forth in claim 1 wherein the compatibilizing agent is selected from the group consisting of propylene glycol, butylene glycol, 1,3 butylene glycol, low molecular weight 5 polyethylene glycols (molecular weights of less than about 720 and liquid at room temperature), methoxyisopropanol, dipropylene glycol propyl ether, dipropylene glycol butyl ether, dipropylene glycol, methyl propanediol, and soluble/dispersible polypropylene glycols, and combinations 10 thereof.

13. The moisturizing and lubricating composition as set forth in claim 1 further comprising a dispersing agent.

14. The moisturizing and lubricating composition as set forth in claim 13 wherein the dispersing agent is selected from the group consisting of polyether 5 ethoxylated/propoxylated modified polydimethylsiloxanes which are fully or partially compatible with polydimethylsiloxanes,

silicone polyethers having at least 30% siloxane, between 10% and 40% ethoxylation and between 0% and 40% propoxylation and combinations thereof.

15. The moisturizing and lubricating composition as set forth in claim 1 further comprising a skin barrier enhancing agent in an amount of from about 0.1% (by weight) to about 30% (by weight).

16. The moisturizing and lubricating composition as set forth in claim 15 wherein the skin barrier enhancing agent is selected from the group consisting of a fat and an oil.

17. The moisturizing and lubricating composition as set forth in claim 15 wherein the skin barrier enhancing agent is selected from the group consisting of apricot kernel oil, avocado oil, babassu oil, borage seed oil, butter, C₁₂-C₁₈

5 acid triglyceride, camellia oil, canola oil, caprylic/capric/lauric triglyceride, caprylic/capric/linoleic triglyceride, caprylic/capric/stearic triglyceride, caprylic/capric triglyceride, carrot oil, cashew nut oil, castor oil, cherry pit oil, chia oil, cocoa butter, coconut 10 oil, cod liver oil, corn germ oil, corn oil, cottonseed oil, C₁₀-C₁₈ triglycerides, egg oil, epoxidized soybean oil, evening primrose oil, glyceryl triacetyl hydroxystearate, glyceryl triacetyl ricinoleate, glycosphingolipids, grape seed oil, hazelnut oil, human placental lipids, hybrid 15 safflower oil, hybrid sunflower seed oil, hydrogenated castor oil, hydrogenated castor oil laurate, hydrogenated coconut oil, hydrogenated cottonseed oil, hydrogenated C₁₂-C₁₈ triglycerides, hydrogenated fish oil, hydrogenated lard, hydrogenated menhaden oil, hydrogenated mink oil, 20 hydrogenated orange roughy oil, hydrogenated palm kernel oil, hydrogenated palm oil, hydrogenated peanut oil, hydrogenated shark liver oil, hydrogenated soybean oil, hydrogenated

tallow, hydrogenated vegetable oil, lard,
lauric/palmitic/oleic triglyceride, lesquerella oil, linseed
25 oil, macadamia nut oil, maleated soybean oil, meadowfoam seed
oil, menhaden oil, mink oil, moringa oil, mortierella oil,
neatsfoot oil, oleic/linoleic triglyceride,
oleic/palmitic/lauric/myristic/linoleic triglyceride,
oleostearine, olive husk oil, olive oil, omental lipids,
30 orange roughy oil, palm kernel oil, palm oil, peach kernel
oil, peanut oil, pengawar djambi oil, pentadesma butter,
phospholipids, pistachio nut oil, placental lipids, rapeseed
oil, rice bran oil, safflower oil, sesame oil, shark liver
oil, shea butter, soybean oil, sphingolipids, sunflower seed
35 oil, sweet almond oil, tall oil, tallow, tribehenin,
tricaprin, tricaprylin, triheptanoin,
trihydroxymethoxystearin, trihydroxystearin, triisononanoin,
triisostearin, trilaurin, trilinolein, trilinolenin,
trimyristin, trioctanoin, triolein, tripalmitin, trisебасин,
40 tristearin, triundecanoin, vegetable oil, walnut oil, wheat
bran lipids, wheat germ oil, zadoary oil, and mixtures
thereof.

18. The moisturizing and lubricating composition as set forth in claim 15 further comprising an antioxidant in an amount of from about 0.05% to about 5%.

19. The moisturizing and lubricating composition as set forth in claim 18 wherein the antioxidant is selected from the group consisting of natural and synthetic tocopherol, butylated hydroxyanisole (BHA), butylated hydroxytoluene
5 (BHT), carotenoids, filtered wheat germ oil, gamma oryzanol, sodium sulfite, grape seed extract, green tea extract, rosmarinic acid, ubiquinone, lipoic acid, N-acetyl-cysteine, avocado, sage, proanthrocyanidins, and mixtures thereof.

20. The moisturizing and lubricating composition as set forth in claim 18 wherein the antioxidant is selected from the group consisting of natural and synthetic tocopherol, butylated hydroxytoluene, gamma oryzanol, and mixtures 5 thereof.

21. The moisturizing and lubricating composition as set forth in claim 1 further comprising a sterol or sterol derivative in an amount of from about 0.1% (by weight) to about 10% (by weight).

22. The moisturizing and lubricating composition as set forth in claim 21 wherein the sterol or sterol derivative is selected from the group consisting of cholesterol sulfate, cholesterol, sitosterol, stigmasterol, ergosterol, C₁₀-C₃₀ 5 cholesterol/lanosterol esters, cholecalciferol, cholestryl hydroxystearate, cholestryl isostearate, cholestryl stearate, 7- dihydrocholesterol, dihydrocholesterol, dihydrocholesteryl octyldecanoate, dihydrolanosterol, dihydrolanosteryl octyldecanoate, ergocalciferol, tall oil 10 sterol, soy sterol acetate, lanasterol, soy sterol, avocado sterols, cholesterol esters, sterol esters, and mixtures thereof.

23. The moisturizing and lubricating composition as set forth in claim 1 further comprising a ceramide.

24. The moisturizing and lubricating composition as set forth in claim 23 wherein the ceramide is glucosylceramide.

25. The moisturizing and lubricating composition as set forth in claim 1 further comprising one or more components selected from the group consisting of emulsifiers, surfactants, water, viscosity modifiers, pH modifiers, enzyme 5 inhibitors/inactivators, suspending agents, pigments, dyes, colorants, buffers, perfumes, antibacterial actives,

antifungal actives, natural moisturizing factors, pharmaceutical actives, film formers, deodorants, opacifiers, astringents, solvents, organic acids, preservatives,

10 antivirul actives, drugs, vitamins, aloe vera, and panthenol.

26. The moisturizing and lubricating composition as set forth in claim 1 wherein the composition has a melting point of from about 55°C to about 75°C.

27. The moisturizing and lubricating composition as set forth in claim 1 wherein the composition has a penetration hardness of from about 1 millimeter to about 20 millimeters.

28. The moisturizing and lubricating composition as set forth in claim 1 wherein at least about 90% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from 5 about 45°C to about 80°C.

29. The moisturizing and lubricating composition as set forth in claim 1 wherein at least about 94% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from 5 about 45°C to about 80°C.

30. The moisturizing and lubricating composition as set forth in claim 1 wherein at least about 97% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from 5 about 45°C to about 80°C.

31. A moisturizing and lubricating composition comprising from about 1% (by weight) to about 40% (by weight) of a silicone, from about 1% (by weight) to about 20% (by weight) of a humectant, from about 30% (by weight) to about 5 90% (by weight) an immobilizing agent, from about 1% (by

weight) to about 40% (by weight) of a compatibilizing agent and a dispersing agent wherein no more than about 50% (by weight) of the components are liquid at room temperature and no less than about 50% of the components are solid at room 10 temperature, and wherein at least 85% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from about 45°C to about 80°C.

32. The moisturizing and lubricating composition as set forth in claim 31 wherein the weight ratio of silicone to dispersing agent is at least about 1:1.

33. The moisturizing and lubricating composition as set forth in claim 31 wherein the dispersing agent is Dow Corning 5329.

34. The moisturizing and lubricating composition as set forth in claim 31 wherein the silicone is selected from the group consisting of dimethicone, dimethoconol, PEG dimethicone, alkyl silicones, phenyl silicones, silicone 5 phospholipids, and combinations thereof.

35. The moisturizing and lubricating composition as set forth in claim 31 wherein the humectant is present in an amount of from about 5% (by weight) to about 15% (by weight).

36. The moisturizing and lubricating composition as set forth in claim 31 wherein the humectant is selected from the group consisting of N-Acetyl ethanolamine, urocanic acid, aloe vera gel, arginine PCA, chitosan PCA, copper PCA, corn 5 glycerides, dimethyl imidazolidinone, fructose, glucamine, glucose, glucose glutamate, glucuronic acid, glutamic acid, glycereth-7, glycereth-12, glycereth-20, glycereth-26, glycerin, honey, hydrogenated honey, hydrogenated starch hydrolysates, hydrolyzed corn starch, lactamide MEA, lactic

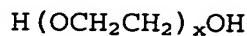
10 acid, lactose lysine PCA, mannitol, methyl gluceth-10, methyl
gluceth-20, PCA, PEG-2 lactamide, PEG-10 propylene glycol,
polyamino sugar condensate, potassium PCA, propylene glycol,
propylene glycol citrate, polyamino acid, polysaccharide,
saccharide hydrolysate, saccharide isomerate, sodium
15 aspartate, sodium lactate, sodium PCA, sorbitol, TEA-lactate,
TEA-PCA, Urea, Xylitol, and mixtures thereof.

37. The moisturizing and lubricating composition as set forth in claim 31 wherein the humectant is selected from the group consisting of polyols, glycerine, ethoxylated glycerine, polyethylene glycols, hydrogenated starch 5 hydrosates, propylene glycol, silicone glycol, pyrrolidone carboxylic acid, and mixtures thereof.

38. The moisturizing and lubricating composition as set forth in claim 31 wherein the humectant is glycerin.

39. The moisturizing and lubricating composition as set forth in claim 31 wherein the immobilizing agent is present in an amount of from about 40% (by weight) to about 70% (by weight).

40. The moisturizing and lubricating composition as set forth in claim 31 wherein the immobilizing agent is selected from the group consisting of aluminum stearate, calcium stearate, magnesium stearate, zinc stearate, C₁₄-C₂₂ fatty 5 alcohols, C₁₂-C₂₂ fatty acids, solid fatty acid esters, C₁₂-C₂₂ fatty alcohol ethoxylates having an average degree of ethoxylation ranging from about 2 to about 30, and high molecular weight polyethylene glycols having the formula:



10 wherein x is the degree of ethoxylation and is an average value of at least about 20 moles.

41. The moisturizing and lubricating composition as set forth in claim 40 wherein the polyethylene glycols are selected from the group consisting of PEG 1000, PEG 3350, PEG 6000, PEG 8000, PEG 10,000.

42. The moisturizing and lubricating composition as set forth in claim 40 wherein the fatty alcohol is selected from the group consisting of cetearyl alcohol, cetyl alcohol, stearyl alcohol, behenyl alcohol, and mixtures thereof.

43. The moisturizing and lubricating composition as set forth in claim 31 wherein the compatibilizing agent is selected from the group consisting of propylene glycol, butylene glycol, 1,3 butylene glycol, low molecular weight 5 polyethylene glycols (molecular weights of less than about 720 and liquid at room temperature), methoxyisopropanol, dipropylene glycol propyl ether, dipropylene glycol butyl ether, dipropylene glycol, methyl propanediol, and soluble/dispersible polypropylene glycols.

44. The moisturizing and lubricating composition as set forth in claim 31 further comprising a skin barrier enhancing agent in an amount of from about 0.1% (by weight) to about 30% (by weight).

45. The moisturizing and lubricating composition as set forth in claim 44 wherein the skin barrier enhancing agent is selected from the group consisting of a fat and an oil.

46. The moisturizing and lubricating composition as set forth in claim 44 wherein the skin barrier enhancing agent is selected from the group consisting of apricot kernel oil, avocado oil, babassu oil, borage seed oil, butter, C₁₂-C₁₈ 5 acid triglyceride, camellia oil, canola oil, caprylic/capric/lauric triglyceride, caprylic/capric/linoleic triglyceride, caprylic/capric/stearic triglyceride,

K-C 19,378A

10 caprylic/capric triglyceride, carrot oil, cashew nut oil,
castor oil, cherry pit oil, chia oil, cocoa butter, coconut
oil, cod liver oil, corn germ oil, corn oil, cottonseed oil,
C₁₀-C₁₈ triglycerides, egg oil, epoxidized soybean oil,
evening primrose oil, glyceryl triacetyl ricinoleate, glycosphingolipids, grape
seed oil, hazelnut oil, human placental lipids, hybrid
safflower oil, hybrid sunflower seed oil, hydrogenated castor
oil, hydrogenated cottonseed oil, hydrogenated C₁₂-C₁₈
triglycerides, hydrogenated castor oil laurate, hydrogenated coconut
oil, hydrogenated menhaden oil, hydrogenated fish oil, hydrogenated lard,
hydrogenated orange roughy oil, hydrogenated mink oil,
hydrogenated palm oil, hydrogenated peanut oil, hydrogenated
shark liver oil, hydrogenated vegetable oil, lard,
tallow, hydrogenated soybean oil, linseed
20 lauric/palmitic/oleic triglyceride, lesquerella oil, linseed
oil, macadamia nut oil, maleated soybean oil, meadowfoam seed
oil, menhaden oil, mink oil, moringa oil, mortierella oil,
neatsfoot oil, oleic/linoleic triglyceride,
oleic/palmitic/lauric/myristic/linoleic triglyceride,
oleostearine, olive husk oil, olive oil, omental lipids,
30 orange roughy oil, palm kernel oil, peach kernel
oil, peanut oil, pengawar djambi oil, pentadesma butter,
phospholipids, pistachio nut oil, placental lipids, rapeseed
oil, rice bran oil, safflower oil, sesame oil, shark liver
oil, shea butter, soybean oil, tallow, tribehenin,
35 oil, sweet almond oil, tall oil, triheptanoin,
tricaprin, tricaprylin, trihydroxystearin, trihydroxystearin,
triisostearin, trilaurin, trilinolein, trilinolenin,
trimyristin, trioctanoin, triolein, tripalmitin, trisebacin,
40 tristearin, triundecanoin, vegetable oil, walnut oil, wheat

bran lipids, wheat germ oil, zadoary oil, and mixtures thereof.

47. The moisturizing and lubricating composition as set forth in claim 44 further comprising an antioxidant in an amount of from about 0.05% to about 5%.

48. The moisturizing and lubricating composition as set forth in claim 47 wherein the antioxidant is selected from the group consisting of natural and synthetic tocopherol, butylated hydroxyanisole (BHA), butylated hydroxytoluene 5 (BHT), carotenoids, filtered wheat germ oil, gamma oryzanol, sodium sulfite, grape seed extract, green tea extract, rosmarinic acid, ubiquinone, lipoic acid, N-acetyl-cysteine, avocado, sage, proanthrocyanidins, and mixtures thereof.

49. The moisturizing and lubricating composition as set forth in claim 47 wherein the antioxidant is selected from the group consisting of natural and synthetic tocopherol, butylated hydroxytoluene, gamma oryzanol, and mixtures 5 thereof.

50. The moisturizing and lubricating composition as set forth in claim 31 further comprising a sterol or sterol derivative in an amount of from about 0.1% (by weight) to about 10% (by weight).

51. The moisturizing and lubricating composition as set forth in claim 50 wherein the sterol or sterol derivative is selected from the group consisting of cholesterol sulfate, cholesterol, sitosterol, stigmasterol, ergosterol, C₁₀-C₃₀ 5 cholesterol/lanosterol esters, cholecalciferol, cholesteryl hydroxystearate, cholesteryl isostearate, cholesteryl stearate, 7- dihydrocholesterol, dihydrocholesterol, dihydrocholesteryl octyldecanoate, dihydrolanosterol, dihydrolanosteryl octyldecanoate, ergocalciferol, tall oil

10 sterol, soy sterol acetate, lanasterol, soy sterol, avocado sterols, cholesterol esters, sterol esters, and mixtures thereof.

52. The moisturizing and lubricating composition as set forth in claim 31 further comprising one or more components selected from the group consisting of emulsifiers, surfactants, water, viscosity modifiers, natural moisturizing factors, pH modifiers, enzyme inhibitors/inactivators, suspending agents, pigments, dyes, colorants, buffers, perfumes, antibacterial actives, antifungal actives, pharmaceutical actives, film formers, deodorants, opacifiers, astringents, solvents, organic acids, preservatives, 10 antivirul actives, drugs, vitamins, aloe vera, and panthenol.

53. The moisturizing and lubricating composition as set forth in claim 31 wherein the moisturizing and lubricating composition has a melting point of from about 55°C to about 75°C.

54. The moisturizing and lubricating composition as set forth in claim 31 wherein the composition has a penetration hardness of from about 1 millimeter to about 20 millimeters.

55. The moisturizing and lubricating composition as set forth in claim 31 further comprising a ceramide.

56. The moisturizing and lubricating composition as set forth in claim 55 wherein the ceramide is glucosylceramide.

57. The moisturizing and lubricating composition as set forth in claim 31 wherein at least about 90% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from 5 about 45°C to about 80°C.

58. The moisturizing and lubricating composition as set forth in claim 31 wherein at least about 94% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from 5 about 45°C to about 80°C.

59. The moisturizing and lubricating composition as set forth in claim 31 wherein at least about 97% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from 5 about 45°C to about 80°C.